8/12/03

To: Tracy Akpati 4D11

From: Shirelle Green, TIS/EIC-2100

Subj.: Translation Request (09/404427)
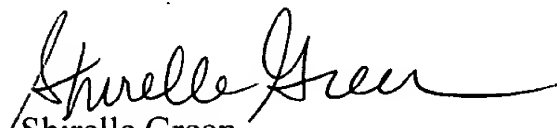
Examiner Akpati,

As a practice, upon receipt of a Translation Request I search the WEST database in an effort to locate an English Language Equivalent.

Attached, please find the results of my search highlighting the Patent Family for the Japanese documents that you submitted. Also, I am including a copy of the English Equivalent document as well as your foreign documents.

If upon reviewing these documents, you determine that you still require a translation of the attached Japanese documents, please don't hesitate to return them to the EIC.

Please note that translations of these documents will take approximately 5 days.

Thank you for supporting the EIC.

/Shirelle Green
Technical Information Specialist
306-4767

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L4: Entry 1 of 1   File: DWPI   Mar 23, 1994

DERWENT-ACC-NO: 1994-094101
DERWENT-WEEK: 199412
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TITLE: Continuous authentication appts using in-band or out-of-band side channel -
protects computer facility against e.g active wire tap by intruder using user and
computer modems performing re-authentication throughout duration of data connection

INVENTOR: SCOTT, R E; SMITH, R K

PATENT-ASSIGNEE:

ASSIGNEE	CODE
AMERICAN TELEPHONE & TELEGRAPH CO	AMTT
AT & T BELL LAB	AMTT

PRIORITY-DATA: 1992US-0937009 (August 31, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 588519 A2	March 23, 1994	E	013	G06F001/00
CA 2104849 A	March 1, 1994		000	H04L009/32
EP 588519 A3	May 24, 1994		000	G06F001/00
JP 06204998 A	July 22, 1994		012	H04L009/00
US 5311596 A	May 10, 1994		011	H04K001/10

DESIGNATED-STATES: DE FR GB IT

CITED-DOCUMENTS:No-SR.Pub; 1.Jnl.Ref ; EP 197392 ; GB 2168831 ; US 4802217 ; US
4852155 ; US 5056140

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 588519A2	August 26, 1993	1993EP-0306791	
CA 2104849A	August 25, 1993	1993CA-2104849	
EP 588519A3	August 26, 1993	1993EP-0306791	
JP 06204998A	August 31, 1993	1993JP-0237161	
US 5311596A	August 31, 1992	1992US-0937009	

INT-CL (IPC): G06F 1/00; G06F 12/14; H04K 1/10; H04L 9/00; H04L 9/10; H04L 9/12;
H04L 9/32; H04L 12/22; H04M 11/00

ABSTRACTED-PUB-NO: EP 588519A
BASIC-ABSTRACT:

The authentication apparatus comprises a unit for sending several challenges to and
receiving several responses from a second data user communication equipment
apparatus. Each one of the responses corresponds to one of the challenges.

A unit verifies each one of the responses as a function of each one of the several

challenges to provide an output representative of the verification of each of the responses. If the output represents one of the responses that is not verified, the data connection is interrupted.

ADVANTAGE - Provides users, owners and operators of computers with flexibility in providing access security against active wire tap of PSTN data connection to a computer.
ABSTRACTED-PUB-NO:

US 5311596A
EQUIVALENT-ABSTRACTS:

The user's modem and the computer's modem perform a re-authentication procedure throughout the duration of the data connection. This re-authentication procedure is transparently performed on a side channel of the data connection. The side channel can either be an in-band channel or an out-of-band channel.

The re-authentication procedure comprises an exchange of encrypted information between the two modems. If one of the modems detects the presence of an active wire tap, that modem simply interrupts the data connection.

USE/ADVANTAGE - Re-authentication procedure between modems of public switched telephone network (PSTN) data connection, which is between computer facility and user, provides secure method for protecting computer facility against active wire tap, or spoofing, by intruder.

CHOSEN-DRAWING: Dwg.2/7 Dwg.3/7

TITLE-TERMS: CONTINUOUS AUTHENTICITY APPARATUS BAND BAND SIDE CHANNEL PROTECT COMPUTER FACILITY ACTIVE WIRE TAP INTRUDE USER COMPUTER MODEM PERFORMANCE AUTHENTICITY DURATION DATA CONNECT

DERWENT-CLASS: T01

EPI-CODES: T01-H01C;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1994-073821

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L5: Entry 2 of 2   File: DWPI   Aug 4, 1993

DERWENT-ACC-NO: 1993-244584
DERWENT-WEEK: 200060
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TITLE: CD-ROM disk, esp. for game machines - records disk identifier and security
code onto boot sector of CD-ROM which is interrogated when CD-ROM is inserted in
game machine

INVENTOR: ASAI, T; KAWOHORI, M ; KAWAHORI, M

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SEGA ENTERPRISES KK	SEGAN

PRIORITY-DATA: 1992JP-0017006 (January 31, 1992), 1996JP-0024971 (January 31, 1992),
1996JP-0024970 (January 31, 1992), 1998JP-0065727 (January 31, 1992), 1999JP-0123616
(January 31, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 553545 A2	August 4, 1993	E	008	G11B007/00
DE 69231438 E	October 19, 2000		000	G06F001/00
US 5371792 A	December 6, 1994		008	G11B023/28
EP 553545 A3	December 1, 1993		000	G11B007/00
JP 08336668 A	December 24, 1996		007	A63F009/22
JP 09050373 A	February 18, 1997		008	G06F009/06
US 35839 E	July 7, 1998		000	G11B023/28
JP 10247144 A	September 14, 1998		006	G06F009/06
JP 2000029683 A	January 28, 2000		007	G06F009/06
EP 553545 B1	September 13, 2000	E	000	G06F001/00

DESIGNATED-STATES: DE GB IT DE GB IT

CITED-DOCUMENTS:No-SR.Pub; 1.Jnl.Ref ; EP 378385 ; EP 447043 ; EP 80244 ; JP
03122713 ; US 4462076

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 553545A2	October 28, 1992	1992EP-0309870	
DE 69231438E	October 28, 1992	1992DE-0631438	
DE 69231438E	October 28, 1992	1992EP-0309870	
DE 69231438E		EP 553545	Based on
US 5371792A	October 5, 1992	1992US-0956262	Cont of
US 5371792A	December 21, 1993	1993US-0171756	
EP 553545A3	October 28, 1992	1992EP-0309870	
JP 08336668A	January 31, 1992	1992JP-0017006	Div ex
JP 08336668A	January 31, 1992	1996JP-0024971	
JP 09050373A	January 31, 1992	1992JP-0017006	Div ex
JP 09050373A	January 31, 1992	1996JP-0024970	
US 35839E	October 5, 1992	1992US-0956262	Cont of
US 35839E	December 21, 1993	1993US-0171756	
US 35839E	August 25, 1995	1995US-0519580	
US 35839E		US 5371792	Reissue of
JP 10247144A	January 31, 1992	1992JP-0017006	Div ex
JP 10247144A	January 31, 1992	1998JP-0065727	
JP2000029683A	January 31, 1992	1992JP-0017006	Div ex
JP2000029683A	January 31, 1992	1999JP-0123616	
EP 553545B1	October 28, 1992	1992EP-0309870	
EP 553545B1	October 28, 1992	1996EP-0103322	Related to
EP 553545B1		EP 718838	Related to

INT-CL (IPC): A63F 9/22; G06F 1/00; G06F 3/06; G06F 3/08; G06F 9/06; G06F 12/14; G06F 12/16; G11B 5/09; G11B 7/00; G11B 7/007; G11B 7/013; G11B 20/00; G11B 20/10; G11B 20/12; G11B 23/28; H04L 9/00

RELATED-ACC-NO: 1996-289173

ABSTRACTED-PUB-NO: EP 553545A
BASIC-ABSTRACT:

The CD-ROM (10) has a boot sector (16), including an identifier region (16a), in which a disc identifier is recorded and a security code region (16b) in which a security code is recorded. The disc identifier includes a preset identification code and the security code. A program is included which is executed after a check of the security code and display data for displaying a license.

The security code includes a LOGOTYPE data indicative of the LOGOTYPE to be displayed. The security check is accomplished by reading the data recorded in the boot sector of the CD-ROM and comparing with the disc identifier. The security code from the boot region is then compared with the stored security code. Successful comparison enables the main program to be executed.

ADVANTAGE - Recognises appropriate format of CD-ROM's inserted into game machines.

ac
ABSTRACTED-PUB-NO:

EP 553545B
EQUIVALENT-ABSTRACTS:

The CD-ROM ·(10) has a boot sector (16), including an identifier region (16a), in which a disc identifier is recorded and a security code region (16b) in which a security code is recorded. The disc identifier includes a preset identification code and the security code. A program is included which is executed after a check of the security code and display data for displaying a license.

The security code includes a LOGOTYPE data indicative of the LOGOTYPE to be displayed. The security check is accomplished by reading the data recorded in the boot sector of the CD-ROM and comparing with the disc identifier. The security code from the boot region is then compared with the stored security code. Successful comparison enables the main program to be executed.

ADVANTAGE - Recognises appropriate format of CD-ROM's inserted into game machines.

ac

US 35839E

The CD-ROM (10) has a boot sector (16), including an identifier region (16a), in which a disc identifier is recorded and a security code region (16b) in which a security code is recorded. The disc identifier includes a preset identification code and the security code. A program is included which is executed after a check of the security code and display data for displaying a license.

The security code includes a LOGOTYPE data indicative of the LOGOTYPE to be displayed. The security check is accomplished by reading the data recorded in the boot sector of the CD-ROM and comparing with the disc identifier. The security code from the boot region is then compared with the stored security code. Successful comparison enables the main program to be executed.

ADVANTAGE - Recognises appropriate format of CD-ROM's inserted into game machines.

ac

US 5371792A

The CD-ROM disk comprises an identifier region having a disk identifier recorded in and a security code region having a security code recorded in. The identifier region and the security code region are provided in one sector of a boot sector to be read when actuated. The disk identifier includes a preset identification code, and the security code includes at least a program to be executed after check of the security code, and display data for displaying a license. A security check method for a CD-ROM disk comprising the steps of reading data recorded in the boot sector of the CD-ROM disk when actuated, comparing the disk identifier read from the identifier region of the boot sector with an stored identifier to check whether or not the read disk identifier is correct, comparing the security code read from the security region of the boot sector with a stored security code to check whether or not the read security code is correct, and executing the program contained in the security code when the read disk identifier and the read security code are correct, and displaying a license based on the display data.

The CD-ROM disk to be mounted on a CD-ROM device comprises an identifier region having a disk identifier recorded in it, and a security code region having a security code recorded in it. The identifier region and the security code region are provided in one sector of a boot sector to be read when actuated, and the disk identifier includes a preset identification code. The security code includes at least a program to be executed after check of the security code.

The program includes a first step in which head addresses of data recorded in the CD-ROM disk are set in a register of a first CPU, and a second step in which a required program routine stored in a CD-ROM device is executed.

USE/ADVANTAGE - For checking if disc is licensed or not.

CHOSEN-DRAWING: Dwg.1/3 Dwg.1/3

TITLE-TERMS: CD ROM DISC GAME MACHINE RECORD DISC IDENTIFY SECURE CODE BOOT SECTOR CD ROM INTERROGATION CD ROM INSERT GAME MACHINE

DERWENT-CLASS: P36 T01 T03 W04

EPI-CODES: T01-G01A; T01-J12C; T01-P02; T03-B05; T03-N01; W04-C05; W04-C10A; W04-X02C;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1993-188071

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L6: Entry 2 of 2   File: DWPI   May 23, 1996

DERWENT-ACC-NO: 1996-268926
DERWENT-WEEK: 200212
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TITLE: Digital storage medium e.g. for computer software security system - stores
security code on disc by modulating offset of physical position of data bits from
nominal track position with read head generating RF signal in presence of offset
with RF signal absence defining second logic state

INVENTOR: HIRANO, T; KUTARAGI, K

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SONY CORP	SONY
SONY COMPUTER ENTERTAINMENT INC	SONY
HIRANO T	HIRAI
KUTARAGI K	KUTAI

PRIORITY-DATA: 1994JP-0285390 (November 18, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 9537891 A	May 23, 1996		031	G06F012/14
MX 199342 B	October 30, 2000		000	G06F001/00
JP 08147704 A	June 7, 1996		007	G11B007/00
EP 723216 A2	July 24, 1996	E	015	G06F001/00
CA 2163177 A	May 19, 1996		000	G11B019/02
EP 723216 A3	September 4, 1996		000	G06F012/14
CN 1133471 A	October 16, 1996		000	G11B007/007
AU 716354 B	February 24, 2000		000	G06F012/14
US 6122739 A	September 19, 2000		000	G06F012/14
EP 723216 B1	June 20, 2001	E	000	G06F001/00
DE 69521402 E	July 26, 2001		000	G06F001/00
EP 1130591 A2	September 5, 2001	E	000	G11B020/00
US 6304971 B1	October 16, 2001		000	G06F012/14
ES 2159596 T3	October 16, 2001		000	G06F001/00

DESIGNATED-STATES: AT BE CH DE DK ES FR GB IT LI NL SE AT BE CH DE DK ES FR GB IT LI
NL SE AT BE CH DE DK ES FR GB IT LI NL SE

CITED-DOCUMENTS:No-SR.Pub; EP 325330 ; EP 545472 ; EP 553545 ; EP 637023

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU 9537891A	November 17, 1995	1995AU-0037891	
MX 199342B	November 17, 1995	1995MX-0004818	
JP 08147704A	November 18, 1994	1994JP-0285390	
EP 723216A2	November 17, 1995	1995EP-0118162	
CA 2163177A	November 17, 1995	1995CA-2163177	
EP 723216A3	November 17, 1995	1995EP-0118162	
CN 1133471A	November 17, 1995	1995CN-0118825	
AU 716354B	November 17, 1995	1995AU-0037891	
AU 716354B		AU 9537891	Previous Publ.
US 6122739A	November 13, 1995	1995US-0555835	
EP 723216B1	November 17, 1995	1995EP-0118162	
EP 723216B1	November 17, 1995	2001EP-0108855	Related to
DE 69521402E	November 17, 1995	1995DE-0621402	
DE 69521402E	November 17, 1995	1995EP-0118162	
DE 69521402E		EP 723216	Based on
EP 1130591A2	November 17, 1995	1995EP-0118162	Div ex
EP 1130591A2	November 17, 1995	2001EP-0108855	
EP 1130591A2		EP 723216	Div ex
US 6304971B1	November 13, 1995	1995US-0555835	Div ex
US 6304971B1	August 16, 1999	1999US-0374931	
ES 2159596T3	November 17, 1995	1995EP-0118162	
ES 2159596T3		EP 723216	Based on

INT-CL (IPC): G06 F 1/00; G06 F 3/06; G06 F 12/14; G06 F 19/00; G11 B 7/00; G11 B 7/007; G11 B 7/24; G11 B 19/02; G11 B 20/00; G11 B 20/10; G11 B 20/12

RELATED-ACC-NO: 2001-025362

ABSTRACTED-PUB-NO: AU 9537891A
BASIC-ABSTRACT:

The storage medium includes first and second sides with a number of data bits stored on the first side to form a track of data bits. A security code is stored in the track which is defined as modulation of a positional offset of a physical location of the data bits from a nominal track location. The positional offset of the data bits has a frequency of 22.05 kHz. Modulation is performed in a radial direction.

A two-part optical read head provides an RF signal which corresponds to the presence of a physical offset modulation. The RF signal is present when there is a physical offset of the data bits defining a first logical state and the absence of the RF signal defines a second logical state.

USE/ADVANTAGE - E.g. CD, video game. Security code prevents copying of computer software from unauthorised disc to dedicated disc player.
ABSTRACTED-PUB-NO:

EP 723216B
EQUIVALENT-ABSTRACTS:

The storage medium includes first and second sides with a number of data bits stored on the first side to form a track of data bits. A security code is stored in the track which is defined as modulation of a positional offset of a physical location of the data bits from a nominal track location. The positional offset of the data bits has a frequency of 22.05 kHz. Modulation is performed in a radial direction.

A two-part optical read head provides an RF signal which corresponds to the presence of a physical offset modulation. The RF signal is present when there is a physical offset of the data bits defining a first logical state and the absence of the RF

signal defines a second logical state.

USE/ADVANTAGE - E.g. CD, video game. Security code prevents copying of computer software from unauthorised disc to dedicated disc player.

US 6122739A

The storage medium includes first and second sides with a number of data bits stored on the first side to form a track of data bits. A security code is stored in the track which is defined as modulation of a positional offset of a physical location of the data bits from a nominal track location. The positional offset of the data bits has a frequency of 22.05 kHz. Modulation is performed in a radial direction.

A two-part optical read head provides an RF signal which corresponds to the presence of a physical offset modulation. The RF signal is present when there is a physical offset of the data bits defining a first logical state and the absence of the RF signal defines a second logical state.

USE/ADVANTAGE - E.g. CD, video game. Security code prevents copying of computer software from unauthorised disc to dedicated disc player.

US 6304971B

The storage medium includes first and second sides with a number of data bits stored on the first side to form a track of data bits. A security code is stored in the track which is defined as modulation of a positional offset of a physical location of the data bits from a nominal track location. The positional offset of the data bits has a frequency of 22.05 kHz. Modulation is performed in a radial direction.

A two-part optical read head provides an RF signal which corresponds to the presence of a physical offset modulation. The RF signal is present when there is a physical offset of the data bits defining a first logical state and the absence of the RF signal defines a second logical state.

USE/ADVANTAGE - E.g. CD, video game. Security code prevents copying of computer software from unauthorised disc to dedicated disc player.

CHOSEN-DRAWING: Dwg.1/7

TITLE-TERMS: DIGITAL STORAGE MEDIUM COMPUTER SOFTWARE SECURE SYSTEM STORAGE SECURE CODE DISC MODULATE OFFSET PHYSICAL POSITION DATA BIT NOMINAL TRACK POSITION READ HEAD GENERATE RF SIGNAL PRESENCE OFFSET RF SIGNAL ABSENCE DEFINE SECOND LOGIC STATE

DERWENT-CLASS: T03 W04

EPI-CODES: T03-B; T03-F02A; T03-J01; T03-N01; T03-P07; W04-C10A; W04-E02A3; W04-H01;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1996-226031

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L7: Entry 2 of 2   File: DWPI   Feb 4, 2003

DERWENT-ACC-NO: 1997-102083
DERWENT-WEEK: 200313
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TITLE: Digital audio, video data signal recording apparatus - records ciphered input signal and key storage site information specifying arraying site for encryption key information

INVENTOR: KAWASHIMA, I; KURIHARA, A ; OSAWA, Y ; SAKO, Y

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SONY CORP	SONY

PRIORITY-DATA: 1995JP-0189309 (July 25, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6516064 B1	February 4, 2003		000	H04N007/167
EP 756279 A2	January 29, 1997	E	042	G11B020/00
JP 09097216 A	April 8, 1997		025	G06F012/14
KR 97008024 A	February 24, 1997		000	G11B020/00
EP 756279 B1	December 19, 2001	E	000	G11B020/00
DE 69618101 E	January 31, 2002		000	G11B020/00

DESIGNATED-STATES: DE FR GB DE FR GB

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6516064B1	July 10, 1996	1996US-0677543	
EP 756279A2	July 17, 1996	1996EP-0305259	
JP 09097216A	April 19, 1996	1996JP-0098950	
KR 97008024A	July 25, 1996	1996KR-0030208	
EP 756279B1	July 17, 1996	1996EP-0305259	
DE 69618101E	July 17, 1996	1996DE-0618101	
DE 69618101E	July 17, 1996	1996EP-0305259	
DE 69618101E		EP 756279	Based on

INT-CL (IPC): G06 F 12/14; G09 C 1/00; G11 B 20/00; G11 B 20/10; G11 B 20/12; H04 L 9/08; H04 N 7/167

ABSTRACTED-PUB-NO: EP 756279A
BASIC-ABSTRACT:

The signal recording apparatus ciphers an input signal. The storage site information which specifies an arraying site for the encryption key information used in the cipher is entered. The key storage site information is recorded in a particular user inaccessible portion on the disk.

ADVANTAGE - Unathourised decoding or copying is made difficult.
ABSTRACTED-PUB-NO:

EP 756279B
EQUIVALENT-ABSTRACTS:

The signal recording apparatus ciphers an input signal. The storage site information
which specifies an arraying site for the encryption key information used in the
cipher is entered. The key storage site information is recorded in a particular user
inaccessible portion on the disk.

ADVANTAGE - Unathourised decoding or copying is made difficult.

CHOSEN-DRAWING: Dwg.16/32

TITLE-TERMS: DIGITAL AUDIO VIDEO DATA SIGNAL RECORD APPARATUS RECORD INPUT SIGNAL
KEY STORAGE SITE INFORMATION SPECIFIED ARRAY SITE ENCRYPTION KEY INFORMATION

DERWENT-CLASS: P85 T03 W04

EPI-CODES: T03-P07A; W04-D20A; W04-F01L1; W04-G01L1;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1997-084428

WEST

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L1: Entry 2 of 2   File: DWPI   Oct 2, 2002

DERWENT-ACC-NO: 1995-062573
DERWENT-WEEK: 200273
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TITLE: Optical disk, e.g. for use as CD-ROM, preventing unauthorised copying - has several spiral trains of regular pits formed symmetrically w.r.t. track centre, and one train of irregular pits with predetermined shape different from shape of each of regular pits which cannot be conventionally copied

INVENTOR: KAYANUMA, K; NAGANO, H ; OZAKI, K

PATENT-ASSIGNEE:
ASSIGNEE   CODE
VICTOR CO OF JAPAN   VICO

PRIORITY-DATA: 1994JP-0037748 (February 10, 1994), 1993JP-0207136 (July 29, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 69431225 E	October 2, 2002		000	G11B020/00
EP 637023 A1	February 1, 1995	E	043	G11B020/00
TW 241360 A	February 21, 1995		000	G11B011/12
JP 07272282 A	October 20, 1995		021	G11B007/007
CN 1100549 A	March 22, 1995		000	G11B007/00
SG 42776 A1	October 17, 1997		000	G11B007/26
US 5696757 A	December 9, 1997		038	G11B007/24
KR 153225 B1	December 15, 1998		000	G11B020/00
JP 3061098 B2	July 10, 2000		022	G11B007/007
EP 637023 B1	August 28, 2002	E	000	G11B020/00

DESIGNATED-STATES: AT DE ES FR GB IT NL AT DE ES FR GB IT NL

CITED-DOCUMENTS:01Jnl.Ref; EP 545472 ; JP 62078727

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 69431225E	April 11, 1994	1994DE-0631225	
DE 69431225E	April 11, 1994	1994EP-0302516	
DE 69431225E		EP 637023	Based on
EP 637023A1	April 11, 1994	1994EP-0302516	
TW 241360A	April 2, 1994	1994TW-0102991	
JP 07272282A	September 22, 1994	1994JP-0254804	
CN 1100549A	April 25, 1994	1994CN-0104669	
SG 42776A1	April 11, 1994	1995SG-0001447	
US 5696757A	April 4, 1994	1994US-0222268	Cont of
US 5696757A	September 23, 1996	1996US-0717663	
KR 153225B1	July 29, 1994	1994KR-0018705	
JP 3061098B2	September 22, 1994	1994JP-0254804	
JP 3061098B2		JP 7272282	Previous Publ.
EP 637023B1	April 11, 1994	1994EP-0302516	

INT-CL (IPC): G11 B 3/90; G11 B 7/00; G11 B 7/004; G11 B 7/007; G11 B 7/013; G11 B
7/095; G11 B 7/24; G11 B 7/26; G11 B 11/12; G11 B 19/04; G11 B 19/12; G11 B 20/00;
G11 B 20/10

RELATED-ACC-NO: 1996-161878

ABSTRACTED-PUB-NO: EP 637023A
BASIC-ABSTRACT:

The optical disk comprises a predetermined number of spiral trains of regular pits
(PA), and at least one train of irregular pits. The regular pits in each of the
trains are symmetrically arranged w.r.t. the centre of the track (TR).

Each of the irregular pits has a predetermined shape different from the shape of
each of the regular pits. The arrangement of the train of the irregular pits is
different from the arrangement of each of the trains of the regular pits, such that
a signal can be obtained from the train of the irregular pits. This signal is a
tracking error signal, and is an RF signal, with its symmetry varying due to the
train of the irregular pits.

ADVANTAGE - Good copy protection can be achieved by easily detecting illegal copy
disk.
ABSTRACTED-PUB-NO:

EP 637023B
EQUIVALENT-ABSTRACTS:

The optical disk comprises a predetermined number of spiral trains of regular pits
(PA), and at least one train of irregular pits. The regular pits in each of the
trains are symmetrically arranged w.r.t. the centre of the track (TR).

Each of the irregular pits has a predetermined shape different from the shape of
each of the regular pits. The arrangement of the train of the irregular pits is
different from the arrangement of each of the trains of the regular pits, such that
a signal can be obtained from the train of the irregular pits. This signal is a
tracking error signal, and is an RF signal, with its symmetry varying due to the
train of the irregular pits.

ADVANTAGE - Good copy protection can be achieved by easily detecting illegal copy
disk.

US 5696757A

The optical disk comprises a predetermined number of spiral trains of regular pits
(PA), and at least one train of irregular pits. The regular pits in each of the
trains are symmetrically arranged w.r.t. the centre of the track (TR).

Each of the irregular pits has a predetermined shape different from the shape of each of the regular pits. The arrangement of the train of the irregular pits is different from the arrangement of each of the trains of the regular pits, such that a signal can be obtained from the train of the irregular pits. This signal is a tracking error signal, and is an RF signal, with its symmetry varying due to the train of the irregular pits.

ADVANTAGE - Good copy protection can be achieved by easily detecting illegal copy disk.

CHOSEN-DRAWING: Dwg.1A/27 Dwg.1a,b/2

TITLE-TERMS: OPTICAL DISC CD ROM PREVENT UNAUTHORISED COPY SPIRAL TRAIN REGULAR PIT FORMING SYMMETRICAL TRACK CENTRE ONE TRAIN IRREGULAR PIT PREDETERMINED SHAPE SHAPE REGULAR PIT CONVENTION COPY

DERWENT-CLASS: T03 W04

EPI-CODES: T03-B01D1; T03-B01F; T03-N01; T03-P07; W04-C01F; W04-C10A; W04-F01L;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1995-049837

WEST

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L8: Entry 1 of 1   File: DWPI   Oct 27, 1992

DERWENT-ACC-NO: 1992-381620
DERWENT-WEEK: 200220
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TITLE: Cellular cryptographic telephony system - modifies first subset of
intermediate signals using non-keyed transformation based on second subset of
intermediate signals

INVENTOR: REEDS, J A

PATENT-ASSIGNEE:
ASSIGNEE	CODE
AT & T CORP	AMTT
AMERICAN TELEPHONE & TELEGRAPH CO	AMTT
AT & T BELL LAB	AMTT

PRIORITY-DATA: 1991US-0759309 (September 13, 1991)

PATENT-FAMILY:
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5159634 A	October 27, 1992		015	H04L009/02
FI 108590 B1	February 15, 2002		000	H04K001/06
EP 532228 A2	March 17, 1993	E	015	H04L009/32
FI 9204090 A	March 14, 1993		000	H04K001/06
JP 06188877 A	July 8, 1994		014	H04L009/06
EP 532228 A3	April 13, 1994		000	H04L009/02
EP 532228 B1	December 15, 1999	E	000	H04L009/32
DE 69230423 E	January 20, 2000		000	H04L009/32

DESIGNATED-STATES: DE FR GB SE DE FR GB SE

CITED-DOCUMENTS:No-SR.Pub; 1.Jnl.Ref ; EP 105553

APPLICATION-DATA:
PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 5159634A	September 13, 1991	1991US-0759309	
FI 108590B1	September 11, 1992	1992FI-0004090	
FI 108590B1		FI 9204090	Previous Publ.
EP 532228A2	September 3, 1992	1992EP-0308000	
FI 9204090A	September 11, 1992	1992FI-0004090	
JP 06188877A	September 11, 1992	1992JP-0267808	
EP 532228A3	September 3, 1992	1992EP-0308000	
EP 532228B1	September 3, 1992	1992EP-0308000	
DE 69230423E	September 3, 1992	1992DE-0630423	
DE 69230423E	September 3, 1992	1992EP-0308000	
DE 69230423E		EP 532228	Based on

INT-CL (IPC): <u>G09</u> <u>C</u> <u>1/00</u>; <u>H04</u> <u>B</u> <u>7/26</u>; <u>H04</u> <u>K</u> <u>1/06</u>; <u>H04</u> <u>L</u> <u>9/02</u>; <u>H04</u> <u>L</u> <u>9/06</u>; <u>H04</u> <u>L</u>
<u>9/14</u>; <u>H04</u> <u>L</u> <u>9/32</u>

ABSTRACTED-PUB-NO: EP 532228B
BASIC-ABSTRACT:

The method of transforming a set of message signals includes the steps of encrypting
the set of message signals with an encryption process and a set of key signals to
form a set of first intermediate signals and altering the set of first intermediate
signals in accordance with an involutory transformation to form a set of second
intermediate signals and decrypting the set of second intermediate signals with a
decryption processs which is the inverse of the encryption process to form a set of
output signals.

The step of altering comprises the step of modifying a first subset of said set of
first intermediate signals with an unkeyed transformation based on a second subset
of said set of first intermediate signals. The step of encrypting comprises the step
of forming the set of first intermediate signals in accordance with a first autokey
process and the step of decrypting comprises the step of forming the set of output
signals in accordance with a second autokey process.

ADVANTAGE - Secure, performable on 8-bit microcomputer.
ABSTRACTED-PUB-NO:

US 5159634A
EQUIVALENT-ABSTRACTS:

The method of transforming a set of message signals includes the steps of encrypting
the set of message signals with an encryption process and a set of key signals to
form a set of first intermediate signals and altering the set of first intermediate
signals in accordance with an involutory transformation to form a set of second
intermediate signals and decrypting the set of second intermediate signals with a
decryption processs which is the inverse of the encryption process to form a set of
output signals.

The step of altering comprises the step of modifying a first subset of said set of
first intermediate signals with an unkeyed transformation based on a second subset
of said set of first intermediate signals. The step of encrypting comprises the step
of forming the set of first intermediate signals in accordance with a first autokey
process and the step of decrypting comprises the step of forming the set of output
signals in accordance with a second autokey process.

ADVANTAGE - Secure, performable on 8-bit microcomputer.

CHOSEN-DRAWING: Dwg.3/11

TITLE-TERMS: CELLULAR CRYPTOGRAPHIC TELEPHONE SYSTEM MODIFIED FIRST SUBSET
INTERMEDIATE SIGNAL NON KEY TRANSFORM BASED SECOND SUBSET INTERMEDIATE SIGNAL

DERWENT-CLASS: W01 W02

EPI-CODES: W01-B05A1A; W01-C08F; W02-C03C1A; W02-L05;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1992-291063